# **SECTION INTERIOR LIGHTING SYSTEM**

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# < PRECAUTION > PRECAUTION

#### PRECAUTIONS Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT В **PRF-TENSIONER**" INFOID:000000013374723 The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the SR and SB section of this Service Manual. D WARNING: To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer. Ε Improper repair, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section. Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors. PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS WARNING: When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the Н Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury. When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery or batteries, and wait at least three minutes before performing any service. Precaution for Work INFOID-000000012875467 When removing or disassembling each component, be careful not to damage or deform it. If a component may be subject to interference, be sure to protect it with a shop cloth. When removing (disengaging) components with a screwdriver or similar tool, be sure to wrap the component Κ with a shop cloth or vinyl tape to protect it. Protect the removed parts with a shop cloth and prevent them from being dropped. Replace a deformed or damaged clip. INL • If a part is specified as a non-reusable part, always replace it with a new one. Be sure to tighten bolts and nuts securely to the specified torque. After installation is complete, be sure to check that each part works properly. Follow the steps below to clean components: M - Water soluble dirt: • Dip a soft cloth into lukewarm water, wring the water out of the cloth and wipe the dirty area. • Then rub with a soft, dry cloth. Ν - Oily dirt: Dip a soft cloth into lukewarm water with mild detergent (concentration: within 2 to 3%) and wipe the dirty area. Then dip a cloth into fresh water, wring the water out of the cloth and wipe the detergent off. Ο • Then rub with a soft, dry cloth. - Do not use organic solvent such as thinner, benzene, alcohol or gasoline. - For genuine leather seats, use a genuine leather seat cleaner. Ρ

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#### < PREPARATION >

# PREPARATION PREPARATION

# Special Service Tool

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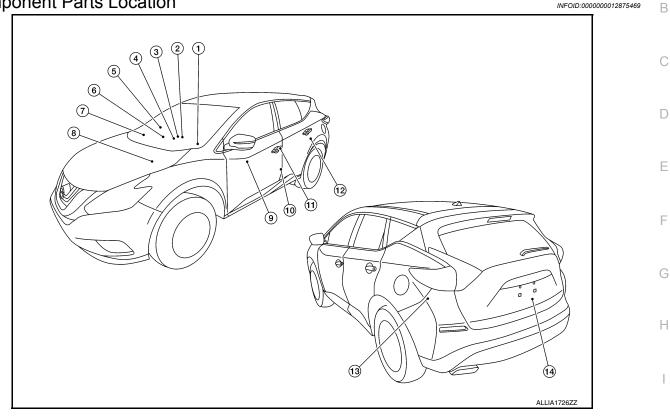
The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name		Description
— (J-46534) Trim Tool Set	AWJIA0483ZZ	Removing trim components

#### < SYSTEM DESCRIPTION >

# SYSTEM DESCRIPTION **COMPONENT PARTS**

**Component Parts Location** 



No.	Component	Function
1.	Meter control switch	Refer to <u>MWI-8, "METER SYSTEM : Meter Control Switch"</u> for detailed instal- lation location
2.	ВСМ	<ul> <li>Activates the interior room lamp timer depending on the vehicle condition to turn the interior room lamps ON/OFF.</li> <li>Operates the interior room lamp battery saver depending on the vehicle condition to turn interior room lamps OFF.</li> <li>Detects each switch condition by the combination switch reading function.</li> <li>Judges the illumination lamp ON/OFF status depending on the vehicle condition. And then transmits request signal to IPDM E/R and combination meter (via CAN communication).</li> <li>Refer to <u>BCS-4, "BODY CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location.</li> </ul>
3.	Combination meter	Controls the meter illumination according to the request signal from BCM (via CAN communication). Refer to <u>MWI-7, "METER SYSTEM : Combination Meter"</u> for detailed installation location.
4.	Combination switch (lighting & turn signal switch)	Refer to <u>BCS-4, "BODY CONTROL SYSTEM : Component Parts Location"</u> for detailed installation location.
5.	Power window and door lock/unlock switch RH	Refer to <u>DLK-12</u> , "POWER DOOR LOCK SYSTEM : Component Parts Loca- tion" for detailed installation location.
6.	Push-button ignition switch (push-button ignition switch illumination)	Provides ignition switch status to the BCM. Refer to <u>PCS-41, "Push-button Ignition Switch"</u> for detailed installation loca- tion.
7.	Remote keyless entry receiver	Refer to <u>DLK-12</u> , "POWER DOOR LOCK SYSTEM : Component Parts Loca- tion" for detailed installation location.

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#### **COMPONENT PARTS**

#### < SYSTEM DESCRIPTION >

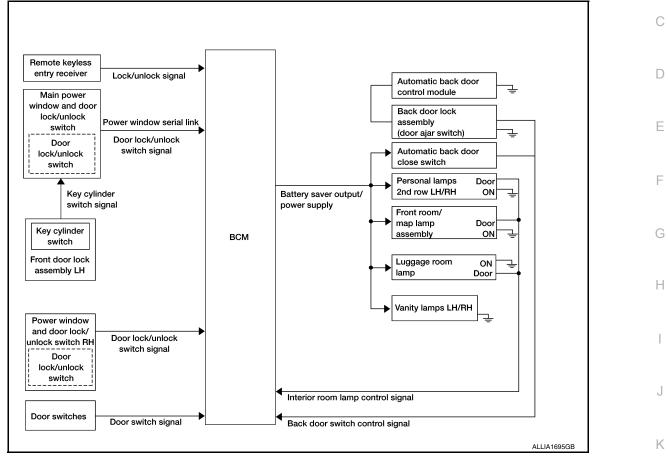
No.	Component	Function
8.	IPDM E/R	Controls the integrated relay according to the request signal from BCM (via CAN communication). Refer to <u>PCS-5, "Component Parts Location"</u> for detailed installation location.
9.	Main power window and door lock/unlock switch	Refer to <u>DLK-12</u> , "POWER DOOR LOCK SYSTEM : Component Parts Loca- tion" for detailed installation location.
10.	Front door switch LH	Refer to <u>DLK-12</u> , <u>"POWER DOOR LOCK SYSTEM : Component Parts Loca-</u> tion" for detailed installation location.
11.	Front door lock assembly LH (key cylinder switch)	Refer to <u>DLK-12</u> , <u>"POWER DOOR LOCK SYSTEM : Component Parts Loca-</u> tion" for detailed installation location.
12.	Rear door switch LH	Refer to <u>DLK-12</u> , <u>"POWER DOOR LOCK SYSTEM : Component Parts Loca-</u> tion" for detailed installation location.
13.	Automatic back door control module	Refer to <u>DLK-17, "AUTOMATIC BACK DOOR SYSTEM :</u> <u>Component Parts Location"</u> for detailed installation location.
14.	Back door lock assembly (door ajar switch)	Refer to <u>DLK-17, "AUTOMATIC BACK DOOR SYSTEM :</u> <u>Component Parts Location"</u> for detailed installation location.

#### SYSTEM

# SYSTEM INTERIOR ROOM LAMP CONTROL SYSTEM INTERIOR ROOM LAMP CONTROL SYSTEM : System Description

#### SYSTEM DIAGRAM

< SYSTEM DESCRIPTION >



#### OPERATION DESCRIPTION

- Front room/map lamp assembly, personal lamps 2nd row and luggage room lamp are controlled by the interior room lamp timer control function of the BCM when the lamp switch is in the DOOR position.
- Push-button ignition switch illumination is controlled by the push-button ignition switch illumination control function of BCM.
- Interior room lamps are illuminated by welcome light function of the Intelligent Key system. Refer to <u>DLK-25</u>, M <u>"INTELLIGENT KEY SYSTEM : System Description"</u>.

#### ROOM LAMP TIMER OPERATION

When the interior room lamp switch is in the DOOR position, the BCM begins timer control (maximum 30 sec- N onds) for interior room lamp ON/OFF when all conditions below are met:

- When the front door LH is unlocked with Intelligent Key system, main power window and door lock/unlock switch or front door lock assembly LH (key cylinder switch).
- When a door opens → closes.

Timer control is cancelled under the following conditions:

- When the front door LH is locked with Intelligent Key system, main power window and door lock/unlock switch or front door lock assembly LH (key cylinder switch).
- A door is opened (door switch turns ON).
- Ignition switch is turned ON.

#### INTERIOR LAMP BATTERY SAVER CONTROL

If an interior lamp is left ON and does not turn OFF, even when the doors are closed, the BCM turns off power to the interior lamps automatically to save the battery, 15 minutes after the ignition switch is turned OFF. The BCM controls power and ground to all interior lamps.

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#### SYSTEM

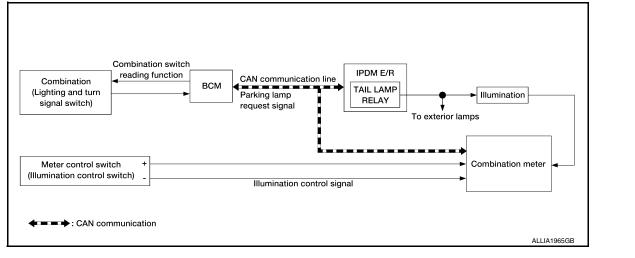
#### < SYSTEM DESCRIPTION >

After the battery saver system turns the lamps OFF, the lamps will illuminate again when the following conditions are met:

- A signal is received from an Intelligent Key or main power window and door lock/unlock switch or when the front door lock assembly LH (key cylinder switch) is locked or unlocked.
- A door is opened or closed.

#### ILLUMINATION CONTROL SYSTEM

#### ILLUMINATION CONTROL SYSTEM : System Diagram



#### ILLUMINATION CONTROL SYSTEM : System Description

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The illumination lamps operation is dependent upon the position of the combination switch (lighting and turn signal switch). When the combination switch (lighting and turn signal switch) is placed in the 1st or 2nd position (or if the auto light system is activated) the BCM (body control module) receives input requesting the parking lamps to illuminate. This input is communicated to the IPDM E/R (intelligent power distribution module engine room) via the CAN communication lines. The CPU (central processing unit) of the IPDM E/R controls the tail lamp relay coil. When energized, this relay directs power to the parking and illumination lamps, which then illuminate. The illumination brightness can be controlled by the meter control switch (illumination control switch).

#### BATTERY SAVER CONTROL

When the combination switch (lighting and turn signal switch) is in the 1st or 2nd position and the ignition switch is turned from ON or ACC to OFF, the battery saver control feature is activated. Under this condition, the illumination lamps remain illuminated for 15 minutes unless the combination switch (lighting and turn signal switch) position is changed. If the combination switch (lighting and turn signal switch) position lamps are turned off after a 30 second delay. When the combination switch (lighting and turn signal switch) is turned from OFF to 1st or 2nd position (or if auto light system is activated) after illumination lamps have been turned off by the battery saver control, the illumination lamps illuminate again.

# < SYSTEM DESCRIPTION > DIAGNOSIS SYSTEM (BCM) COMMON ITEM

#### COMMON ITEM : CONSULT Function (BCM - COMMON ITEM)

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#### APPLICATION ITEM

CONSULT performs the following functions via CAN communication with BCM.

Direct Diagnostic Mode	Description	
ECU Identification	The BCM part number is displayed.	
Self Diagnostic Result	The BCM self diagnostic results are displayed.	[
Data Monitor	The BCM input/output data is displayed in real time.	
Active Test	The BCM activates outputs to test components.	E
Work support	The settings for BCM functions can be changed.	
Configuration	<ul><li>The vehicle specification can be read and saved.</li><li>The vehicle specification can be written when replacing BCM.</li></ul>	F
CAN Diag Support Mntr	The result of transmit/receive diagnosis of CAN communication is displayed.	

#### SYSTEM APPLICATION

BCM can perform the following functions:

		Direct Diagnostic Mode						- H	
System	Sub System	ECU Identification	Self Diagnostic Result	Data Monitor	Active Test	Work support	Configuration	CAN Diag Support Mntr	- n J
Door lock	DOOR LOCK		×	×	×	×			-
Rear window defogger	REAR DEFOGGER			×	×	×			K
Warning chime	BUZZER			×	×				
Interior room lamp timer	INT LAMP			×	×	×			INL
Exterior lamp	HEADLAMP			×	×	×			
Wiper and washer	WIPER			×	×	×			-
Turn signal and hazard warning lamps	FLASHER			×	×	×			M
Air conditioner	AIR CONDITIONER			×					-
Intelligent Key system	INTELLIGENT KEY		×	×	×	×			
Combination switch	COMB SW			×					- N
BCM	BCM	×	×			×	×	×	-
Immobilizer	IMMU		×	×	×				0
Interior room lamp battery saver	BATTERY SAVER			×	×				-
Back door open	TRUNK			×					-
Vehicle security system	THEFT ALM			×	×	×			P
RAP system	RETAINED PWR			×					-
Signal buffer system	SIGNAL BUFFER			×	×				-
TPMS	AIR PRESSURE MONITOR		×	×	×				-

FREEZE FRAME DATA (FFD)

#### **DIAGNOSIS SYSTEM (BCM)**

#### < SYSTEM DESCRIPTION >

The BCM records the following vehicle condition at the time a particular DTC is detected, and displays it on CONSULT.

CONSULT screen item	Indication/Unit	Description				
Vehicle Speed	km/h	Vehicle speed at the moment a particular DTC is detected				
Odo/Trip Meter	km	Total mileage (Odometer value) at the moment a particular DTC is detected				
	SLEEP>LOCK		While turning BCM status from low power consumption mode to normal mode (Power supply position is "LOCK"*).			
	SLEEP>OFF		While turning BCM status from low power consumption mode to normal mode (Power supply position is "OFF".)			
	LOCK>ACC		While turning power supply position from "LOCK" *to "ACC"			
	ACC>ON		While turning power supply position from "ACC" to "IGN"			
	RUN>ACC		While turning power supply position from "RUN" to "ACC" (Vehicle is stopped and selector lever is in P position.)			
	CRANK>RUN		While turning power supply position from "CRANKING" to "RUN" (From cranking up the engine to run it)			
	RUN>URGENT	_	While turning power supply position from "RUN" to "ACC" (Emer- gency stop operation)			
	ACC>OFF		While turning power supply position from "ACC" to "OFF"			
	OFF>LOCK	Power position status at the moment a particular DTC is detected*	While turning power supply position from "OFF" to "LOCK"*			
Vehicle Condition	OFF>ACC		$\Delta = 1$ (While furning power supply position from "() $EE$ to " $\Delta CC$			
	ON>CRANK		While turning power supply position from "IGN" to "CRA			
	OFF>SLEEP		While turning BCM status from normal mode (Power supply position is "OFF".) to low power consumption mode			
	LOCK>SLEEP		While turning BCM status from normal mode (Power supply position is "LOCK"*.) to low power consumption mode			
	LOCK		Power supply position is "LOCK" (Ignition switch OFF)*			
	OFF	Power supply position is "OFF" (Ignition swit				
	ACC		Power supply position is "ACC" (Ignition switch ACC)			
	ON		Power supply position is "IGN" (Ignition switch ON with engine stopped)			
	ENGINE RUN		Power supply position is "RUN" (Ignition switch ON with engine running)			
	CRANKING		Power supply position is "CRANKING" (At engine cranking)			
IGN Counter	0 - 39	<ul> <li>The number of times that ignition switch is turned ON after DTC is detected</li> <li>The number is 0 when a malfunction is detected now.</li> <li>The number increases like 1 → 2 → 338 → 39 after returning to the normal condition whenever ignition is switched OFF → ON.</li> <li>The number is fixed to 39 until the self-diagnosis results are erased if it is over 39.</li> </ul>				

#### NOTE:

\*: Power supply position shifts to "LOCK" from "OFF", when ignition switch is in the OFF position, selector lever is in the P position, and any of the following conditions are met:

- Closing door
- · Opening door
- Door is locked using door request switch
- Door is locked using Intelligent Key

The power supply position shifts to "ACC" when the push-button ignition switch (push switch) is pushed at "LOCK".

#### INT LAMP

INT LAMP : CONSULT Function (BCM - INT LAMP)

#### DATA MONITOR

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#### **DIAGNOSIS SYSTEM (BCM)**

#### < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description	
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.	
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.	
REQ SW -RR [On/Off]	Indicates condition of rear door request switch RH.	
REQ SW -RL [On/Off]	Indicates condition of rear door request switch LH.	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.	
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.	
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.	
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.	
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.	
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.	
DOOR SW-BK [On/Off]	Indicates condition of back door switch.	
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.	
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.	
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.	
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.	
TRNK/KAT MNTR [On/Off]	Indicates condition of luggage room lamp switch.	
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.	
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.	

#### ACTIVE TEST

Test Item	Description	
INT LAMP	This test is able to check interior room lamp operation [On/Off].	
STEP LAMP TEST	This test is able to check step lamp operation [On/Off].	J

#### WORK SUPPORT

#### NOTE:

The items listed below are the only applicable Work Support items for this vehicle. If other items are displayed K on CONSULT, do not use or change the setting for these other items.

Support Item	Setting	Description	INL
SCENARIO LIGHTING SETTING	On	NOTE:	
SCENARIO LIGHTING SETTING	Off*	Do not use this function since interior room lamp control is changed.	
FOG LAMP OVERRIDE	On*	Fog lamp override function ON.	M
	Off	Fog lamp override function OFF.	_

#### \* : Initial setting

#### BATTERY SAVER

#### BATTERY SAVER : CONSULT Function (BCM - BATTERY SAVER)

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#### DATA MONITOR

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Monitor Item [Unit]	Description	Р
REQ SW -DR [On/Off]	Indicates condition of door request switch LH.	
REQ SW -AS [On/Off]	Indicates condition of door request switch RH.	
REQ SW -RR [On/Off]	Indicates condition of rear door request switch LH.	
REQ SW -RL [On/Off]	Indicates condition of rear door request switch RH.	
PUSH SW [On/Off]	Indicates condition of push-button ignition switch.	

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#### **DIAGNOSIS SYSTEM (BCM)**

#### < SYSTEM DESCRIPTION >

Monitor Item [Unit]	Description
UNLK SEN -DR [On/Off]	Indicates condition of door unlock sensor.
DOOR SW-DR [On/Off]	Indicates condition of front door switch LH.
DOOR SW-AS [On/Off]	Indicates condition of front door switch RH.
DOOR SW-RR [On/Off]	Indicates condition of rear door switch RH.
DOOR SW-RL [On/Off]	Indicates condition of rear door switch LH.
DOOR SW-BK [On/Off]	Indicates condition of back door switch.
CDL LOCK SW [On/Off]	Indicates condition of lock signal from door lock and unlock switch.
CDL UNLOCK SW [On/Off]	Indicates condition of unlock signal from door lock and unlock switch.
KEY CYL LK-SW [On/Off]	Indicates condition of lock signal from door key cylinder switch.
KEY CYL UN-SW [On/Off]	Indicates condition of unlock signal from door key cylinder switch.
TRNK/HAT MNTR [On/Off]	Indicates condition of luggage room lamp switch.
RKE-LOCK [On/Off]	Indicates condition of lock signal from Intelligent Key.
RKE-UNLOCK [On/Off]	Indicates condition of unlock signal from Intelligent Key.

#### ACTIVE TEST

Test item	Description
BATTERY SAVER	This test is able to check battery saver operation [On/Off].

# < ECU DIAGNOSIS INFORMATION > ECU DIAGNOSIS INFORMATION BCM

# List of ECU Reference

ECU	Reference
	BCS-30, "Reference Value"
BCM	BCS-50, "Fail Safe"
всм	BCS-51, "DTC Inspection Priority Chart"
	BCS-52, "DTC Index"

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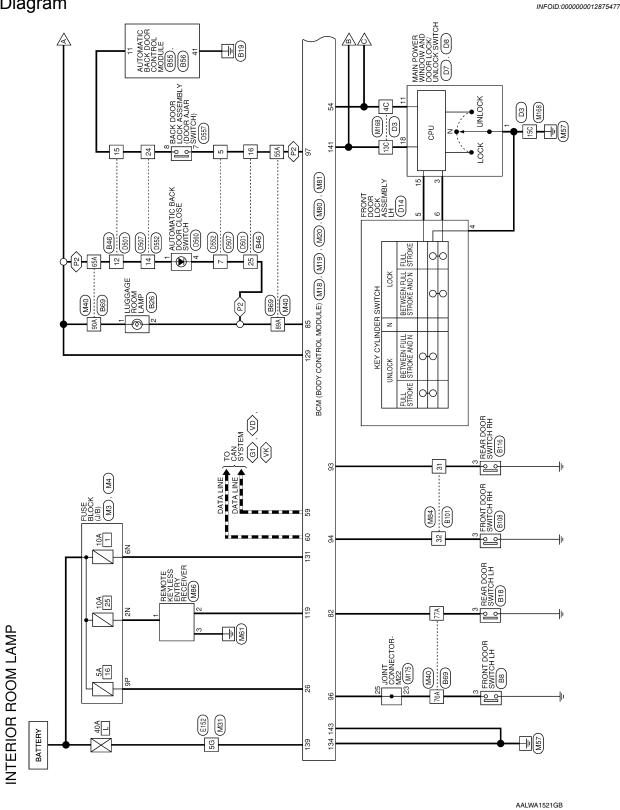
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< WIRING DIAGRAM >

# WIRING DIAGRAM

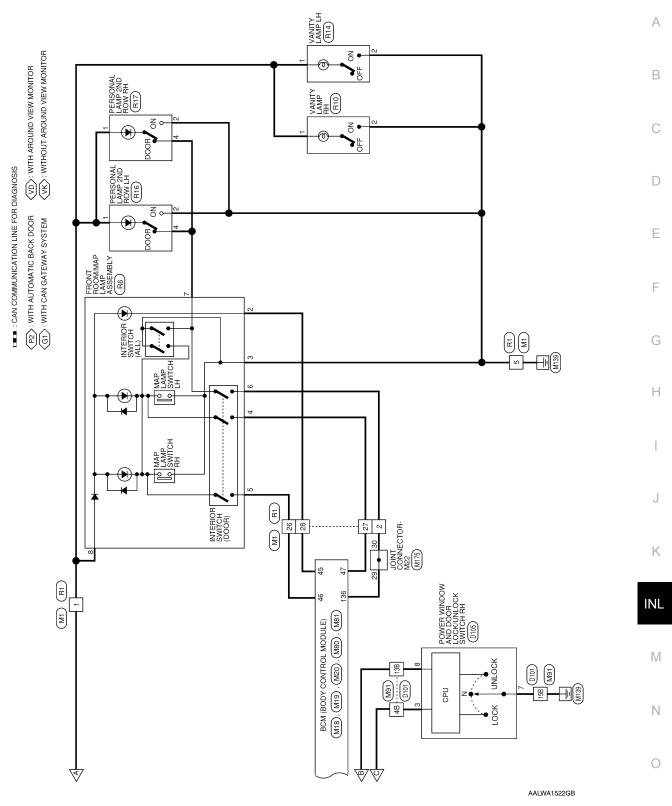
INTERIOR ROOM LAMP

Wiring Diagram



#### **INTERIOR ROOM LAMP**

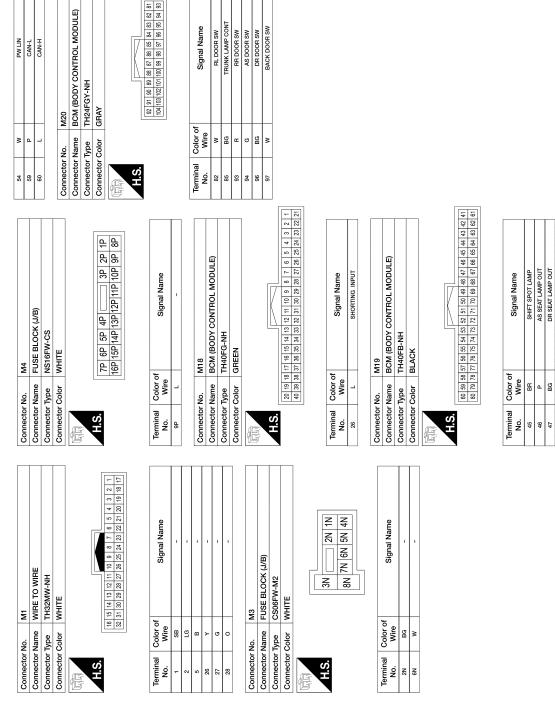
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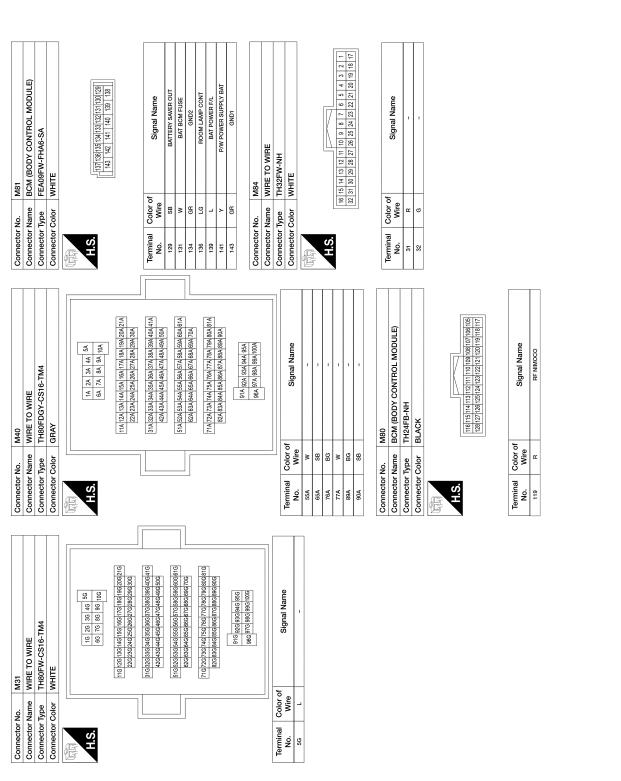
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CONNECTORS	
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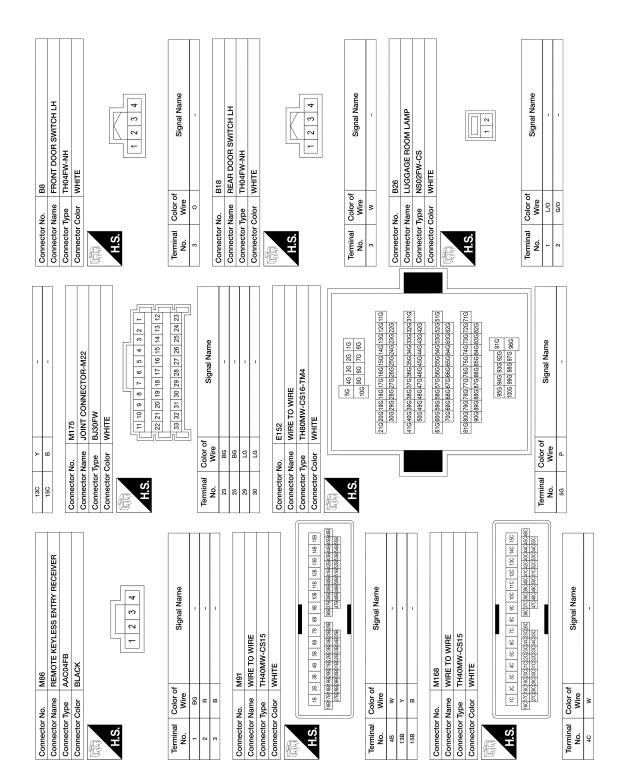
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#### INTERIOR ROOM LAMP

#### < WIRING DIAGRAM >



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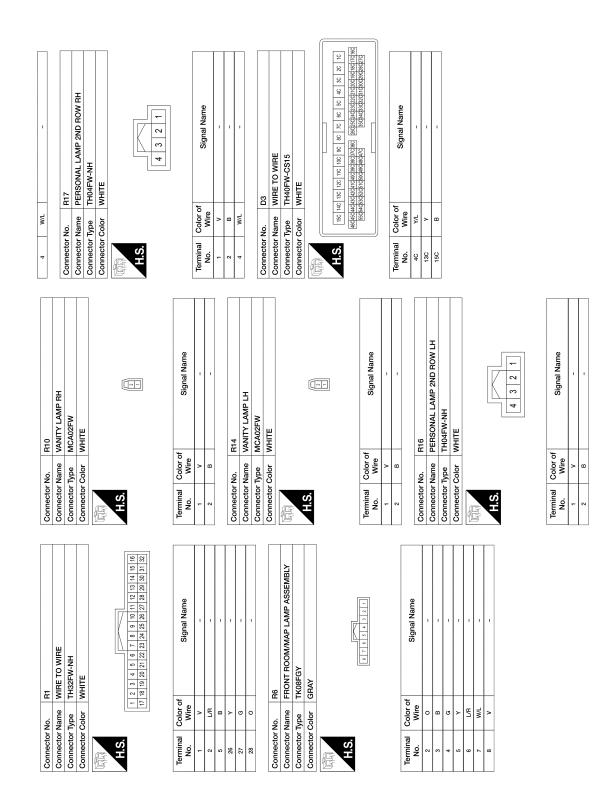
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D501	WIRF TO WIRF	THOUL TO WH	TH32FW-NH	WHITE				16 15 14 13 12 11 1	31 30 29 28 27									D507	WIDE TO WIDE	THOULD UN NH						12 11 10 9	24 23 22 21																								D	
Connector No	a			Connector Color			S.	_	32			0	-	+	•			Connector No	4		Connector type				<u>ن</u>	I				0	>	_	+	H a	_																E	
Conne	- uno		Conne	Conne	E		H.S.		ſſ			۳ ۲		≌ ; ]]	<u> </u>	25		Juno					Ĩ		H.S.					Terminal	No.	1 0	~ ;	24	5																F	
										8 1 3 3 3 4 3 4 3 4 3 4 4 5 4 5 4 5 4 5 4 5		268258248238228218208198188178168 35824823823821828318288318288278				ame						OOR LOCK/							1 5	1 12				ame																	G	
1	I	Т		-	WIRE TO WIRE	TH40FW-CS15	TE			15R 14B 18B 11B 11B 12B 13B 14B 14B 14B 14B 14B 14B 14B 14B 14B 14		468458448438428418408398388378368 268258 5586485385785186084984478 358		-		Signal Name	I	-	1		5	POWER WINDOW AND DOOR LOCK/	OCK SWITCH RH	NS12FW-CS	TE				1 2 3 4 5	6 7 8 9 10 1				Signal Name	COM	GND	BAT														Η	
8	۲W	BR		lo. D101				7		15R 14R 13R		46B45B44B43B42 55B54B54B53B52			Color of	Wire	٨٦	۲	в		lo. D105		N			-							Color of	Wire	٨L	8	>															
4	a	9		Connector No.	Connector Name	Connector Type	Connector Color			SH	5			9	Terminal		4B	13B	15B		Connector No.	Connector Name		Connector Type	Connector Color	8	No and a second s		<u>0</u>				Terminal		8	7	œ														J	
																				B LOCK/																-	I.														K	
									2 13 14 15 16				Signal Name	UND	D LOCK ACTR DR	COM	D LOCK ACTR DR			DOW AND DOC								18 19	2			Signal Name	BAT				K ASSEMBLY L						4 5 6		and Mamo	Signal Name				I	NL	
	IN POWER WIND			10FW-CS	WILLE			7 6 5 4 7	8 9 10 11 12 13 14				Sig		DTO		DLO			IN POWER WINE	UNLOCK SWITCH	NS03FW-CS	WHITE					17 18				Sig					FRONT DOOR LOCK ASSEMBLY LH	E06FGY-RS	AY		l		1 2 3		0	SIG					M	
10 D7													Color of		, 8	٨L	ΓW		lo. D8	-												Color of Wire	>			-	+		Color GRAY						Color of	Wire	-				Ν	
Connector No	Connector Name		Frotococo	Connector type	CONNECTOR COLOR	E		H.S.					Terminal		- m	F	15		Connector No.	Connector Name		Connector Type	Connector Color		F		Ņ. L					Terminal No.		-	Connector	Connector No.	Connector Name	Connector Type	Connector Color	14Mm	S H	5				No.					0	

# **INTERIOR ROOM LAMP**

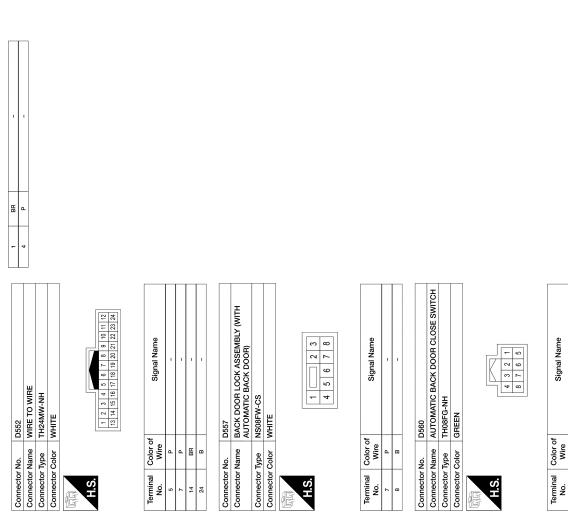
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2016 Murano NAM

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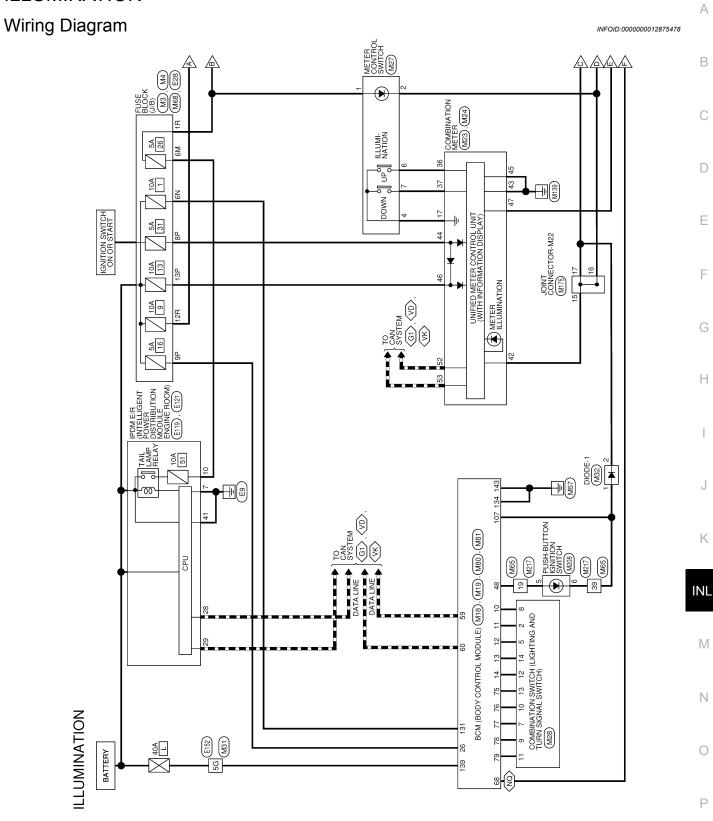


Signal Name

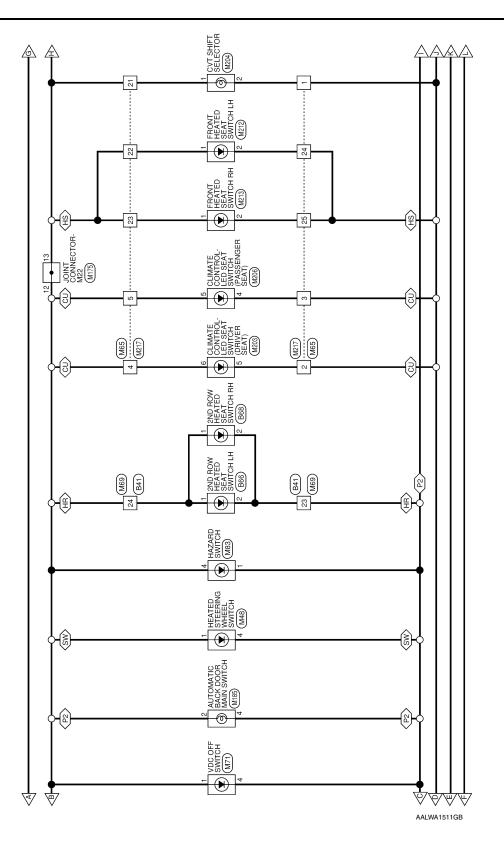
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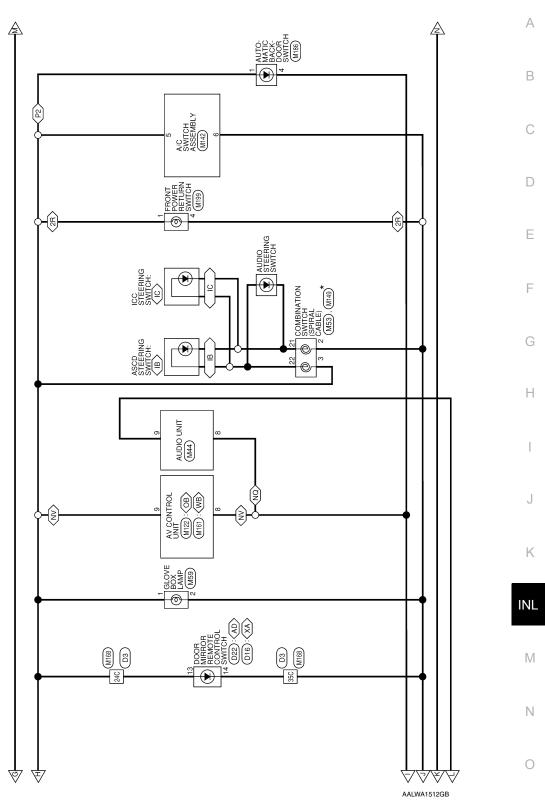
**ILLUMINATION** 



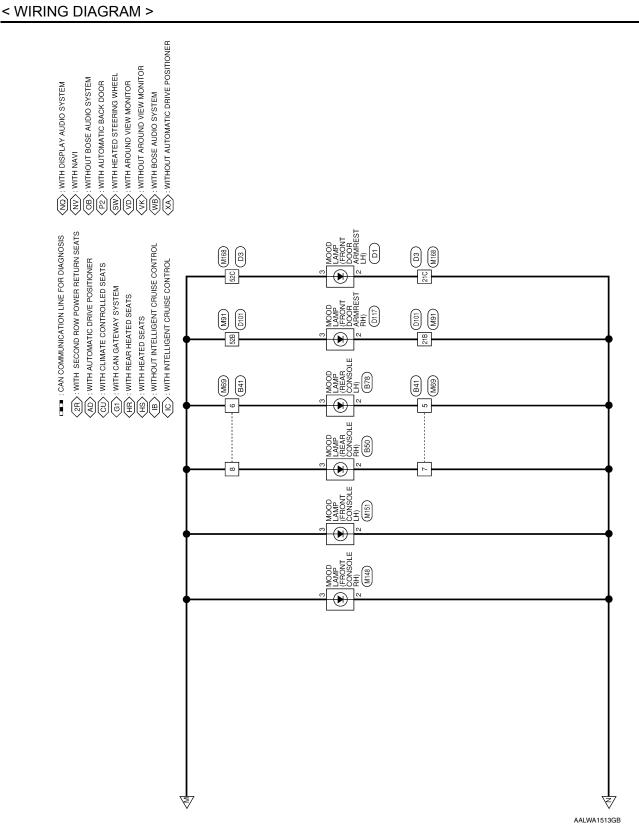
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Revision: December 2015



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#### **ILLUMINATION**

# Revision: December 2015

Connector Name Connector Type Connector Type Connector Color WHITE H.S.		:		COMPLEASE IN 4	20	
		12	æ	COMBI SW IN 3	53 L	CAN-H
	FUSE BLOCK (J/B)	13	g	COMBI SW IN 2		
	N-M2	14	٩	COMBI SW IN 1	Connotor No	PCM
		26	_	SHORTING INPUT		
Н. S.H					Connector Name	
H.S.		Connector No.		M19	Connector type	I R40FW-INR
ò	3	Connector Name	1	BCM (BODY CONTROL MODULE)	Connector Color	WHILE
	۷	Connector Type	-	TH40FB-NH		
	8N 7N 6N 5N 4N	Connector Color		BLACK		
		9			H.S.	
-		NHAN			1 2	9 9
Terminal Color of	Signal Name	H.S.			7 77 17	cc 7c 1c nc 67 07
No. Wire			60 59 58 5	60         59         58         57         56         53         52         51         50         49         48         47         46         43         42         41		
	1		80 79 78 7	7 76 75 74 73 72 71 70 69 68 67 66 65 64 63 62 61	Terminal Color of	
Conceptor No MA						Signal Name
4						GND (SATELLITE SW)
		Terminal	Color of	Signal Name		ILL UP SW
	SO-W	No.	Wire	0	37 Y	ILL DOWN SW
		48	•	HIGH SIDE START SW LED		
		28	<b>a</b>	CAN-L	Connector No.	M27
444		99	-	CAN-H	Connector Name	METER CONTROL SWITCH
SH	-	88	-	MR OUTPUT (WITH NAVIGATION SYSTEM)	Connector Type	TH08FW-NH
	2P	88	<u>۲</u>		Connector Color	WHITE
16P 15F	16P 15P 14P 13P 12P 11P 10P 9P 8P	2 92	2 a	COMBLOW OUT 3		
		2	. a	COMBLEM OUT 3		
		78	: 0	COMBI SW OUT 2		k
		562	M	COMBI SW OUT 1	Ъ.С.	
No. Wire	Signal Name					2 3
	1	Connector No.		M23		5 6 7 8
	Т	Connector Name		COMBINATION METER		
13P W	1	Connector Type	-	TH16FW-NH	F	_
		Connector Color		WHITE	Terminal Color of	f Signal Name
Connector No. M18		ł				
Connector Name BCM (Bi	BCM (BODY CONTROL MODULE)				- ~	
Connector Type TH40FG-NH	HN-0					,
		0.E				1
1				41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56	$\square$	1
H.S.						
20 19 18 17 16 15 14 13 12 11 10 40 39 38 37 36 35 34 33 37 31 30	5 14 13 12 11 10 9 8 7 6 5 4 3 2 1 5 34 33 32 31 30 29 28 27 28 25 24 23 22 21	Terminal	Color of	Signal Name		
		43 43	• •	GND1		
		44	BG	POWER (IGN)		
No Wire	Signal Name	45	8	GND2		
	COMBLSW IN 5	46	×	POWER (BAT)		
-		47	œ	INDIRECT ILL CONT OUT		

# **ILLUMINATION**

< WIRING DIAGRAM >

**Revision: December 2015** 

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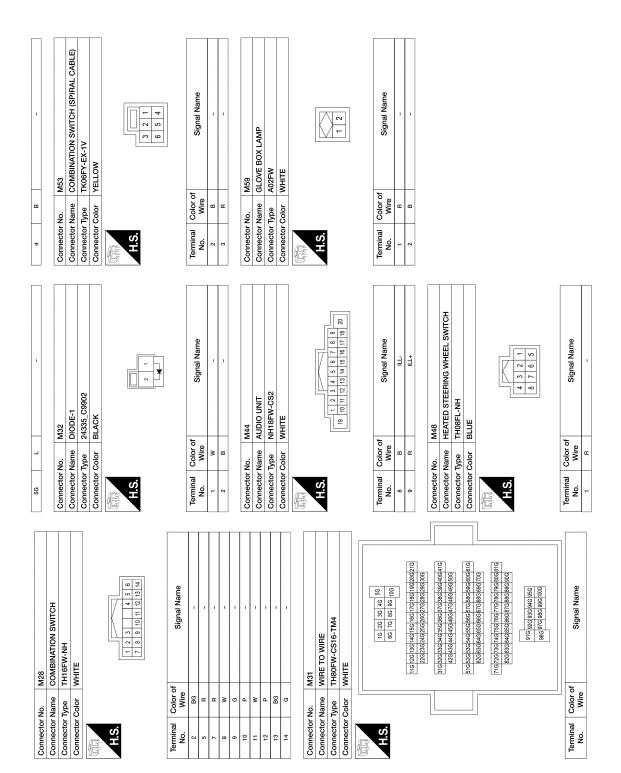
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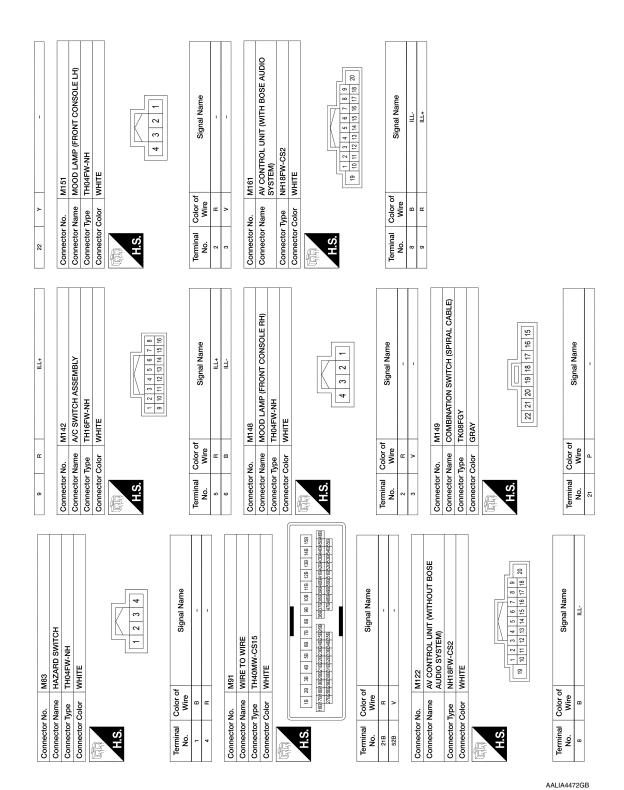
M80 BCM (BODY CONTROL MODULE) TH24FB-NH BLACK	116 115 114 113 112 111 110 106 107 106 105 106 105  128 127 126 125 124 123 122 121 120 119 116 117	f         Signal Name           Low side start sw LED           M81           M81           BCM (BOPY CONTROL MODULE)           FEA09FW-FHA6-SA           WHITE           (143) 142 [141 [140] [28] [33] [130] [28]	Signal Name BAT BOM FUSE GND2 GND1 GND1	
Connector No. M80 Connector Name BCM (BODY Connector Type TH24FB-NH Connector Color BLACK	(16) H.S.	Terminal Color of No. Wire Wire Wire Wo. Wire Onnector No. Wat Connector Name BCM (B Connector Type FEA09F Connector Color WHITE Connector Color WHITE	Terminal Color of No. Wire Color of 131 w w 131 a can a 131 a can a 133 can a can a 143 can a ca	
	20 <u>19</u> 18 <u>17</u>			
M69 WIRE TO WIRE TH32FW-NH WHITE	16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 32 31 30 29 28 27 28 25 24 23 22 21 20 19 16 7	of Signal Name Signal Name	Signal Name	
Connector No. Connector Name Connector Type Connector Color	H.S.	Terminal No.     Color of Wire       5     8       6     V       7     8       8     V       23     6R       24     R       24     R       Connector Name     1       Connector Varme     1       Connector Type     1       Connector Color     1	Terminal Color of Wires	
M65 WIRE TO WIRE TH40MW-NH WHITE	1         2         3         4         5         6         7         8         9         10         11         13         14         15         16         17         18         19         20           21         22         23         24         55         27         28         30         31         32         33         34         35         38         37         38         30         40	Signal Name	M68 FUSE BLOCK (J/B) NS16FBL-CK (J/B) NS16FBL-CS BROWN	
2353	2 3 4	Color of Write         Color of B         B	Connector No. M Connector Name F Connector Vame F Connector Type N Connector Color B Connector Color B Connector Color C 16 16 16 16	

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## ILLUMINATION

< WIRING DIAGRAM >



Connector No.	TH40MW-CS15 Connector Type M02FW-P-LC Connector Type M02FW-P-LC		Inc     2c     2c    <	Signal Name No. Wire	- 2 R	- 4 B	Connector No.		JOINT CONNECTOR-M22 Connector Color GREEN		11109876514321	33         32         31         30         29         28         27         26         25         24         23           No.         Wire         No.         Wire         No.         Wire         No.         No.	Signal Name 4 B		Connector No. M199 Connector Name EBONT P		Connector Color	Terminal Color of No. Wire		_	
M185 AUTOMATIC BACK DOOR MAIN SWITCH	r-P-LC		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Signal Name	-	1		AUTOMATIC BACK DOOR SWITCH			8 7 8 7 8 7 8 7 8 7 8 7	Signal Name	1 1		MI99 FRONT POWER RETLIRN SWITCH	HN-YE		Signal Name	1		
Connector No. M. Connector Name CI	Connector Type Th		日 H.S.	Terminal Color of		е В В	3	Connector No. M.		ector Color	High	Terminal Color of		2 GR							
M203 CLIMATE CONTROLLED SEAT SWITCH (DRIVER SEAT)	(URIVER SEAL) TK10FW	WHITE	4         3           0         7           0         7	Citatal Namo	Signal Name			M204 CVT SHIFT SFI ECTOR	TK02FBR	BROWN		Sional Name	-	1							

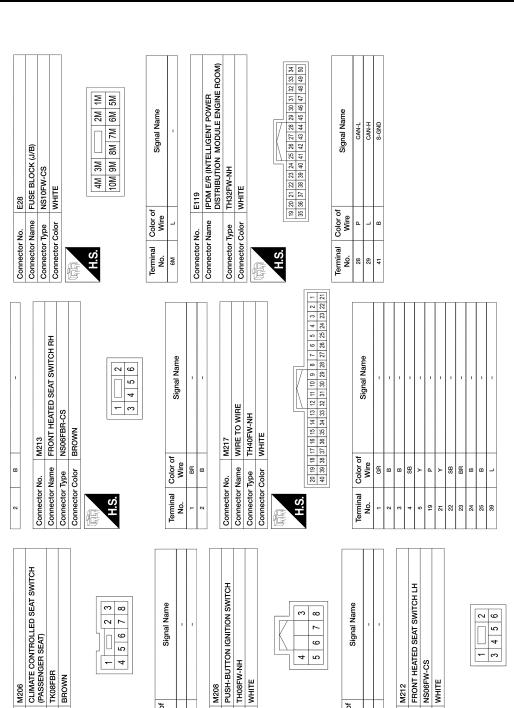
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#### < WIRING DIAGRAM >

Revision: December 2015

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TK08FBR BROWN

Connector Type

Connector Color

H.S.

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M206

Connector No.

Connector Name

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H.S.

WHITE

M208

Connector No.

Connector Name Connector Color

Connector Type

Color of Wire

Terminal No.

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Signal Name

Color of Wire

Terminal No.

SB

NS06FW-CS

M212

Connector No.

Connector Name

Connector Type Connector Color

Color of Wire

Terminal No.

WHITE

H.S.

	2ND ROW HEATED SEAT SWITCH LH	ŝ			1     2       3     4       5     6		Signal Name	-	1		2ND ROW HEATED SEAT SWITCH RH	cs					3 4 5 0		Signal Name	1		B78 MOOD LAMP (REAR CONSOLE LH)				4 3 2 1	>		Signal Name			
B66	2ND ROW	NS06FW-CS	WHITE							B68	2ND ROW	NS06FBR-CS	BROWN									B78 MOOD LAI	TH04FW-NH	WHITE					_			
Connector No.	Connector Name		Connector Color	EE .	01		Terminal Color of Nire	$\square$	2 B	Connector No.	Connector Name	Connector Type	Connector Color	E	AHAHA	H.S.			Terminal Color of No. Wire	- °		Connector No. Connector Name	Connector Type	Connector Color	H.S.			Terminal Color of		2 2 <	-	
					32	1												l		1			7			3					_	
					1         2         3         4         5         6         7         8         9         10         11         12         13         14         15         16         16         16         16         16         16         16         16         16         16         16         16         13         14         15         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         16         17         17         18         10         11         12         13         14         15         16         10         11         17         13         14         15         16         10         11         17         13         14         15         16         16         16         16         10         11         17         13         14         15         16         17         17         18         10         11         17         12         13         12         12         13         12         13         12         13         12         13 <th12< th=""> <th13< th=""> <th13< th=""></th13<></th13<></th12<>		Signal Name	T		1	I			MOOD I AMP (REAR CONSOLE RH)	(		[		2 1		Signal Name	1	1									
	WIRE TO WIRE	TH32MW-NH	ш		4         5         6         7         8           20         21         22         23         24		Sic							D I AMP (RFA	TH04FW-NH	ш			4 3		Sic											
			or WHITE		1 2 3 17 18 19		Color of Wire	В	> \	N/N		œ	DED			or WHITE					Color of Wire	GR/V	NW									
Connector No.	Connector Name	Connector Type	Connector Color	EE E	0 1		Terminal Co No. V	$\square$	9	8	23	24	Connector No	Connector Name	Connector Type	Connector Color		H.S.			Terminal Co No. V											
		(MOC								]																						
	IPDM E/R (INTELLIGENT POWER DISTRIBILITION MODULI E ENCINE PO	N MODULE ENGINE KOOM)			6	14 15 16 17 18		signal Name	P-GND TAIL LH			Е	6-TM4			5G 4G 3G 2G 1G		21G 20G 19G 18G 17G 16G 15G 14G 13G 12G 11G 30G 29G 28G 27G 26G 25G 24G 23G 22G	416406396386376386356346336326316 6604004804474504674604470430	0410450450450	61G 60G 59G 58G 57G 56G 55G 54G 53G 52G 51G 70G 69G 68G 67G 66G 65G 64G 63G 62G	8168067967867767676756756746736726716	G87G86G85G84G83G82G	956 946 936 926 916 1006 996 986 976 966		Signal Name	1					
E121	IPDM E/R (IN	DISTRIBUTIO	NS12FW-CS		7 8	12 13 14					E152	WIRE TO WIRE	TH80MW-CS16-TM4	WHITE				21G20G19G18 30G29G28	41640639638	2010 430 40	61G 60G 59G 58 70G 69G 68 <sup>0</sup>	81G 80G 79G 78	90G 89G 88	<u>  ő  </u> 2								
or No.	Connector Name	-		Connector Color			Color of		е –		ir No.		Connector Type	Connector Color												Color of Wire	₫ -					
Connector No.	nnecto		nnecto		H.S.		Terminal	No.	10		Connector No.	necto	necto	necto	E	H.S.										Terminal	20					

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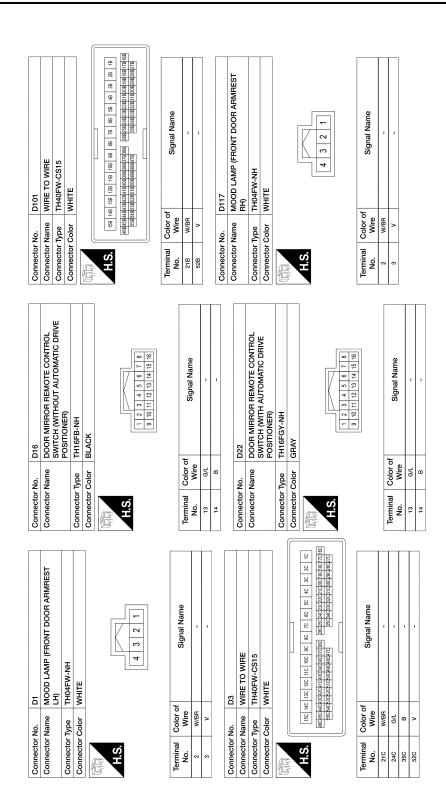
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## ILLUMINATION

#### Revision: December 2015

< WIRING DIAGRAM >

#### ILLUMINATION



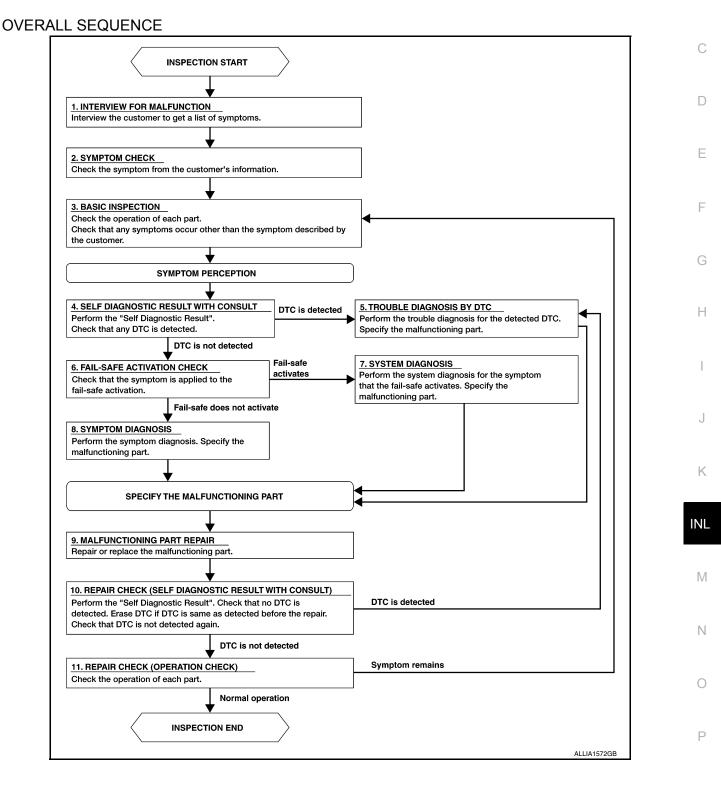
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# BASIC INSPECTION DIAGNOSIS AND REPAIR WORKFLOW

#### Work Flow

INFOID:000000012875479

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#### DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >

#### DETAILED FLOW

**1.**INTERVIEW FOR MALFUNCTION

Find out what the customer's concerns are.

>> GO TO 2.

2.SYMPTOM CHECK

Verify the symptom from the customer's information.

>> GO TO 3.

**3.**BASIC INSPECTION

Check the operation of each part. Check that any concerns occur other than those mentioned in the customer interview.

>> GO TO 4.

**4**.SELF DIAGNOSTIC RESULT WITH CONSULT

Perform the "Self Diagnostic Result". Check that any DTC is detected.

Is any DTC detected?

YES >> GO TO 5.

NO >> GO TO 6.

**5.**TROUBLE DIAGNOSIS BY DTC

Perform the trouble diagnosis for the detected DTC. Specify the malfunctioning part.

>> GO TO 9.

**6.**FAIL-SAFE ACTIVATION CHECK

Determine if the customer's concern is related to fail-safe activation.

Does the fail-safe activate? YES >> GO TO 7. NO >> GO TO 8.

7.SYSTEM DIAGNOSIS

Perform the system diagnosis for the system in which the fail-safe activates. Specify the malfunctioning part.

>> GO TO 9.

**8.**SYMPTOM DIAGNOSIS

Perform the symptom diagnosis, refer to INL-46, "Symptom Table". Specify the malfunctioning part.

>> GO TO 9.

**9.**MALFUNCTION PART REPAIR

Repair or replace the malfunctioning part.

>> GO TO 10.

**10.** REPAIR CHECK (SELF-DIAGNOSTIC RESULT WITH CONSULT)

Perform the "Self Diagnostic Result". Verify that no DTCs are detected. Erase all DTCs detected prior to the repair. Verify that DTC is not detected again. Is any DTC detected?

### DIAGNOSIS AND REPAIR WORKFLOW

< BASIC INSPECTION >	
YES >> GO TO 5. NO >> GO TO 11.	А
11.REPAIR CHECK (OPERATION CHECK)	~
Check the operation of each part.	
Does it operate normally?	В
YES >> Inspection End.	
NO >> GO TO 3.	С
	D
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### INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

# DTC/CIRCUIT DIAGNOSIS INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT

### **Component Function Check**

INFOID:000000012875480

#### **1.**CHECK INTERIOR ROOM LAMP POWER SUPPLY FUNCTION

#### CONSULT

- 1. Turn ignition switch ON.
- 2. Turn each interior room lamp ON.
- Personal lamps 2nd row
- Front room/map lamp assembly
- Luggage room lamp
- Vanity lamps
- 3. Select "BATTERY SAVER" of "BCM".
- 4. Select "BATTERY SAVER" in "Active Test" mode.
- 5. While operating the test items, check that each interior room lamp turns ON/OFF.

#### Off : Interior room lamp ON

#### On : Interior room lamp OFF

#### Does the interior room lamp turn ON/OFF?

- YES >> Interior room lamp power supply circuit is normal.
- NO >> Refer to INL-38, "Diagnosis Procedure".

#### Diagnosis Procedure

INFOID:000000012875481

### 1. CHECK INTERIOR ROOM LAMP POWER SUPPLY OUTPUT

#### CONSULT

- 1. Turn ignition switch OFF.
- 2. Disconnect the following connectors:
- Personal lamps 2nd row
- Front room/map lamp assembly
- Luggage room lamp
- Vanity lamps
- 3. Turn ignition switch ON.
- 4. Select "BATTERY SAVER" of "BCM".
- 5. Select "BATTERY SAVER" in "Active Test" mode.
- 6. While operating the test item, check voltage between BCM harness connector M81 and ground.

BC	СМ				Mallaca
(·	+)	(-)	Test	item	Voltage (Approx.)
Connector	Terminal				
 M81	129	Ground	BATTERY SAVER	Off	Battery voltage
	129	Giouna	DATIENT SAVER	On	0 V

#### Is the inspection result normal?

YES >> GO TO 2.

NO >> Replace BCM. Refer to <u>BCS-79, "Removal and Installation"</u>.

### 2.CHECK INTERIOR ROOM LAMP POWER SUPPLY OPEN CIRCUIT

1. Turn ignition switch OFF.

2. Disconnect the BCM connector M81.

3. Check continuity between BCM harness connector M81 and each interior room lamp harness connector.

### **INTERIOR ROOM LAMP POWER SUPPLY CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

BC	M	Each interior r	oom lamp		Continuity	
Connector	Terminal	Connector		Terminal	Continuity	
		Front room/map lamp assembly	R6	8		-
		Luggage room lamp	B26			
N04	400	Vanity lamp LH	R14		No.	
M81	129	Vanity lamp RH	R10	1	Yes	
		Personal lamp 2nd row LH	R16	_		
		Personal lamp 2nd row RH	R17			

Is the inspection result normal?

>> Check intermittent incident. Refer to GI-42, "Intermittent Incident". YES

>> Repair or replace harnesses. NO

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< DTC/CIRCUIT DIAGNOSIS >

### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### **Component Function Check**

#### **CAUTION:**

#### Before performing the diagnosis, check that the following are normal:

- Battery saver output/power supply
- Front room/map lamp assembly bulbs
- Personal lamps 2nd row bulbs
- Luggage room lamp bulb

#### **1.**CHECK INTERIOR ROOM LAMP CONTROL FUNCTION

#### CONSULT

- 1. Set the front room/map lamp assembly switch, personal lamps 2nd row switch and luggage lamp switch to DOOR:
- 2. Turn ignition switch ON.
- 3. Select "INT LAMP" of "BCM".
- 4. Select "INT LAMP" in "Active Test" mode.
- 5. While operating the test item, check that each interior room lamp turn ON/OFF.

#### On : Interior room lamp On

#### Off : Interior room lamp Off

Does the interior room lamp turn ON/OFF?

- YES >> Interior room lamp control circuit is normal.
- NO >> Refer to INL-40, "Diagnosis Procedure".

### **Diagnosis** Procedure

INFOID:000000012875483

INFOID:000000012875482

Regarding Wiring Diagram information, refer to INL-14, "Wiring Diagram".

### 1. CHECK INTERIOR ROOM LAMP CONTROL OUTPUT

#### CONSULT

- 1. Turn ignition switch ON.
- Select "INT LAMP""BCM".
- 3. Select "INT LAMP" in "Active Test" mode.
- 4. While operating the test item, check voltage between BCM harness connector M81 and ground.

B	СМ		Test	item	Voltage
Connector	Terminal	Ground			(Approx.)
M81	136	Ground	INT LAMP	On	0V
	130			Off	Battery voltage

#### Is the inspection result normal?

YES >> Interior room lamp control circuit is operating normally.

Fixed ON>>GO TO 3.

Fixed OFF>>GO TO 2.

## 2. CHECK INTERIOR ROOM LAMP CONTROL OPEN CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect BCM harness connector M81 and front room/map lamp assembly harness connector R6.
- 3. Check continuity between BCM harness connector M81 and front room/map lamp assembly harness connector R6.

### INTERIOR ROOM LAMP CONTROL CIRCUIT

#### < DTC/CIRCUIT DIAGNOSIS >

BO	CM	Front room/map lamp as	ssembly	Continuity	А
 Connector	Terminal	Connector	Terminal	Continuity	
 M81	136	R6	6	Yes	

4. Disconnect the personal lamps 2nd row harness connector.

Check continuity between front room/map lamp assembly connector R6 and personal lamps 2nd row harness connector.

Front room/map	lamp assembly	Personal lamps 2nd rov	v	Continuity
Connector	Terminal	Connector	Terminal	Continuity
D0	7	R16 (LH)		Vee
R6	1	R17 (RH)	4	Yes

Is the inspection result normal?

YES >> Check interior room lamps for an open. If NG, replace lamp in question. Refer to <u>INL-47</u>, <u>"Removal and Installation"</u> for front room/map lamp assembly or <u>INL-51</u>, <u>"Removal and Installa-</u> <u>tion"</u> for personal lamps 2nd row. If OK, replace BCM. Refer to <u>BCS-79</u>, <u>"Removal and Installa-</u> <u>tion"</u>.

NO >> Repair or replace harness or connectors.

# $\mathbf{3}$ .check interior room lamp control short circuit

#### 1. Turn ignition switch OFF.

2. Disconnect BCM harness connector M81 and front room/map lamp harness connector R6.

3. Check continuity between BCM harness connector M81 and ground.

B	CM		Continuity
Connector	Terminal	Ground	
M81	136		No

#### Is the inspection result normal?

YES >> Check interior room lamps for a short circuit. If NG, replace lamp in question. Refer to <u>INL-47</u>, <u>"Removal and Installation"</u> or <u>INL-51</u>, "<u>Removal and Installation</u>". If OK, replace BCM. Refer to <u>BCS-79</u>, "<u>Removal and Installation</u>".

NO >> Repair or replace harness or connectors.

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< DTC/CIRCUIT DIAGNOSIS >

### LUGGAGE ROOM LAMP

### Component Function Check

#### NOTE:

Before performing the diagnosis, check that the following is normal.

- Interior room lamp power supply
- Luggage room lamp bulb

### 1.CHECK LUGGAGE ROOM LAMP OPERATION

#### CONSULT

- 1. Turn ignition switch ON.
- 2. Select "INTELLIGENT KEY" of "BCM".
- 3. Select "TRUNK/LUGGAGE LAMP TEST" in "Active Test" mode.
- 4. While operating the test items, check that luggage room lamp turns ON/OFF.
  - On : Luggage room lamp ON

#### Off : Luggage room lamp OFF

Does the luggage room lamp turn ON/OFF?

- YES >> Luggage room lamp circuit is normal.
- NO >> Refer to INL-42, "Diagnosis Procedure".

### **Diagnosis** Procedure

INFOID:000000012875485

INFOID:000000012875484

### 1.CHECK LUGGAGE ROOM LAMP OUTPUT

- 1. Turn ignition switch OFF.
- 2. Disconnect luggage room lamp connector B26.
- 3. Check continuity between BCM harness connector M20 and ground.

B	СМ		Condition		Continuity
Connector	Terminal	Ground	Con		Continuity
M20	85	Ground	Back door	Open	Yes
	00		Back 0001	Closed	No

Is the inspection result normal?

YES >> GO TO 2.

- NO-1 >> Continuity exists and remains unchanged: GO TO 3.
- NO-2 >> Continuity does not exist and remains unchanged: Replace BCM. Refer to <u>BCS-79. "Removal and</u> <u>Installation"</u>.

## 2. CHECK LUGGAGE ROOM LAMP OPEN CIRCUIT

1. Disconnect BCM connector M20.

2. Check continuity between BCM harness connector M20 and luggage room lamp harness connector B26.

B	СМ	Luggage	room lamp	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M20	85	B26	2	Yes

#### Is the inspection result normal?

- YES >> Replace luggage room lamp. Refer to <u>INL-52, "Removal and Installation"</u>.
- NO >> Repair or replace harnesses.
- $\mathbf{3}$ .check luggage room lamp short circuit
- 1. Disconnect BCM connector.
- 2. Check continuity between BCM harness connector M20 and ground.

### LUGGAGE ROOM LAMP

#### < DTC/CIRCUIT DIAGNOSIS >

85     No       nal?     Refer to BCS-79, "Removal and Installation".       ce harnesses.		spection result normal?	nspection result normal?	nspection result normal?	inspection result normal?
<u>nal?</u> Refer to <u>BCS-79, "Removal and Installation"</u> . ce harnesses.	<ul> <li>spection result normal?</li> <li>&gt;&gt; Replace BCM. Refer to <u>BCS-79, "Removal and Installation"</u>.</li> <li>&gt;&gt; Repair or replace harnesses.</li> </ul>	<ul> <li>Aspection result normal?</li> <li>&gt; Replace BCM. Refer to <u>BCS-79, "Removal and Installation"</u>.</li> <li>&gt; Repair or replace harnesses.</li> </ul>	<ul> <li>hspection result normal?</li> <li>&gt; Replace BCM. Refer to <u>BCS-79, "Removal and Installation"</u>.</li> <li>&gt; Repair or replace harnesses.</li> </ul>	<ul> <li>nspection result normal?</li> <li>&gt; Replace BCM. Refer to <u>BCS-79, "Removal and Installation"</u>.</li> <li>&gt; Repair or replace harnesses.</li> </ul>	<ul> <li>nspection result normal?</li> <li>&gt; Replace BCM. Refer to <u>BCS-79, "Removal and Installation"</u>.</li> <li>&gt; Repair or replace harnesses.</li> </ul>

### **PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

### PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT

### Description

Provides the power supply and the ground to control the push-button ignition switch illumination.

#### **Component Function Check**

1. CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

#### CONSULT

- 1. Turn the ignition switch ON.
- 2. Select "INTELLIGENT KEY" of "BCM".
- 3. Select "ENGINE SW ILLUMI" in "Active Test" mode.
- 4. While operating the test items, check that the push-button ignition switch illumination turns ON/OFF.

#### On : Push-button ignition switch illumination ON

#### Off : Push-button ignition switch illumination OFF

Does the push-button ignition switch illumination turn ON/OFF?

- YES >> Push-button ignition switch illumination circuit is normal.
- NO >> Refer to INL-44, "Diagnosis Procedure".

**Diagnosis** Procedure

INFOID:000000012875488

Regarding Wiring Diagram information, refer to INL-23. "Wiring Diagram".

#### **1.**CHECK PUSH-BUTTON IGNITION SWITCH ILLUMINATION OPERATION

#### CONSULT

- 1. Turn the ignition switch ON.
- 2. Select "INTELLIGENT KEY" of "BCM".
- 3. Select "ENGINE SW ILLUMI" in "Active Test" mode.
- 4. While operating the test item, check voltage between push-button ignition switch connector M208.

	(+)	(-)	Test item	N/ 1/
Push-button	ignition switch		ENGINE SW ILLUMI	Voltage (Approx.)
Connector	Terminal	Ground		(
M208	5	Ground	ON	5 V
W200	5		OFF	0 V

Is the inspection result normal?

YES >> GO TO 4.

2.check push-button ignition switch illumination power supply open circuit

1. Turn the ignition switch OFF.

- 2. Disconnect BCM harness connector M19 and the push-button ignition switch harness connector M208.
- 3. Check continuity between BCM harness connector B19 and the push-button ignition switch harness connector M208.

B	СМ	Push-button	ignition switch	Continuity
Connector	Terminal	Connector	Terminal	Continuity
M19	48	M208	5	Yes

Is the inspection result normal?

YES >> GO TO 3.

INFOID:000000012875486

INFOID:0000000012875487

### **PUSH-BUTTON IGNITION SWITCH ILLUMINATION CIRCUIT**

#### < DTC/CIRCUIT DIAGNOSIS >

	BCM				
Connector	Terminal		Ground	Continuity	
M19	48			No	
	Refer to <u>BCS-79, "R</u> ice harness or conne	ctors.		ЛТ	
Turn the ignition switch Disconnect push-button Check continuity betwe	n ignition switch harn een push-button igniti			and ground.	
	outton ignition switch			Continuity	
Connector	Termi	nal	Ground		
Connector M208 s the inspection result norr	Termin 6 mal?			Yes	
Connector M208 s the inspection result norr	Termin 6 <u>mal?</u> button ignition switch N IGNITION SWITCH ess connector M80 ar	. Refer to <u>PCS-8</u> I ILLUMINATION	1. "Removal and I GROUND OPEN	Yes nstallation". CIRCUIT ess connector M208.	
Connector M208 s the inspection result norr YES >> Replace push-I NO >> GO TO 5. D.CHECK PUSH-BUTTON Disconnect BCM harne Check continuity between	Termin 6 mal? button ignition switch N IGNITION SWITCH ess connector M80 ar een BCM harness con	. Refer to <u>PCS-8</u> I ILLUMINATION nd push-button ig nnector M80 and	1. "Removal and I GROUND OPEN	Yes nstallation". CIRCUIT ess connector M208. on switch harness cor	
Connector M208 s the inspection result norr YES >> Replace push-I NO >> GO TO 5. CHECK PUSH-BUTTON Disconnect BCM harne Check continuity betwee tor M208.	Termin 6 mal? button ignition switch N IGNITION SWITCH ess connector M80 ar een BCM harness con	. Refer to <u>PCS-8</u> I ILLUMINATION nd push-button ig nnector M80 and	31, "Removal and I I GROUND OPEN gnition switch harn I push-button igniti	Yes nstallation". CIRCUIT ess connector M208.	

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# SYMPTOM DIAGNOSIS INTERIOR LIGHTING SYSTEM SYMPTOMS

### Symptom Table

INFOID:000000012875489

#### NOTE:

Perform the "Self Diagnostic Result" with CONSULT before the symptom diagnosis. Perform the trouble diagnosis if any DTC is detected.

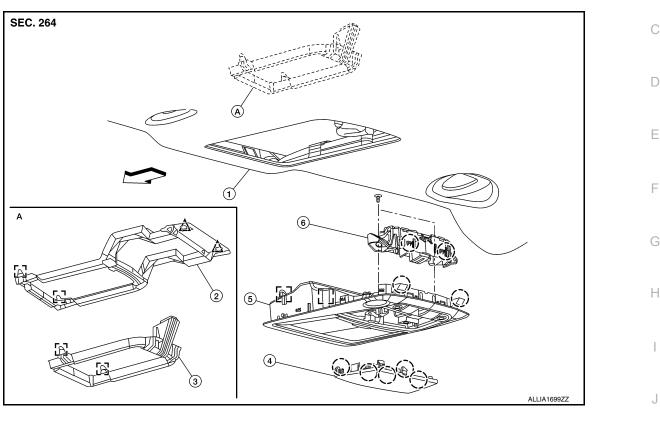
Symptom	Possible cause	Inspection item
All the following lamps do not turn ON: • Front room/map lamp assembly • Personal lamps 2nd row • Luggage room lamp • Vanity lamp LH/RH	<ul> <li>Harness between BCM and each interior room lamp</li> <li>BCM</li> </ul>	Battery saver output/power supply circuit Refer to INL-38, "Component Func- tion Check".
<ul> <li>Interior room lamp does not turn ON even though the door is open. (It turns ON when turning the interior room lamp ON.)</li> <li>Interior room lamp does not turn OFF even though the door is closed.</li> </ul>	<ul> <li>Harness between BCM and each door switch</li> <li>Harness between BCM and each</li> </ul>	Door switch circuit Refer to <u>DLK-202,</u> <u>"Component Function Check"</u> .
	<ul><li>interior room lamp</li><li>BCM</li></ul>	Interior room lamp control circuit Refer to INL-40.
Interior room lamp timer does not activate. (It turns ON/ OFF when the door opens/closes.)		Check the interior room lamp setting. Refer to INL-7, "INTERIOR ROOM LAMP CONTROL SYSTEM : System Description".
Push-button ignition switch illumination does not illuminate.	<ul> <li>Harness between BCM and push- button ignition switch</li> <li>BCM</li> </ul>	Push-button ignition switch illumina- tion circuit Refer to <u>INL-44</u> .
Interior room lamp battery saver does not activate.	ВСМ	Replace BCM. Refer to <u>BCS-79</u> .

# REMOVAL AND INSTALLATION FRONT ROOM/MAP LAMP ASSEMBLY

### Exploded View

INFOID:000000012875490

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1. Headlining

Pawl

√⊃ Front

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- Front room/map lamp assembly bracket 3. (without panoramic roof glass)
- Front room/map lamp assembly
- Front room/map lamp assembly bracket (with panoramic roof glass)
- 6. Map lamp
- [ ] Metal Clip

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Removal and Installation

Panoramic roof switch finisher 5.

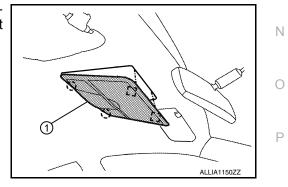
- REMOVAL
- Lower front edge of map lamp assembly (1) down from headlining by releasing metals clips, then slide forward to clear pawls at rear.
   Metal clip

2.

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Clip

- <\_): Pawl



2. Disconnect the harness connectors from the map lamp assembly and remove.

### INSTALLATION

Installation is in the reverse order of removal. **CAUTION:** 

Revision: December 2015

### FRONT ROOM/MAP LAMP ASSEMBLY

#### < REMOVAL AND INSTALLATION >

#### Visually check metal clips and pawls for deformation and damage during installation. Replace if necessary.

### Bulb Replacement

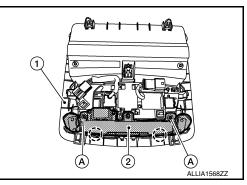
NOTE:

The map lamp bulbs are replaced as part of the map lamp.

### REMOVAL

- 1. Remove map lamp assembly. Refer to INL-47, "Removal and Installation".
- 2. Remove screws (A) from map lamp (2).
- 3. Release pawls and remove map lamp from map lamp assembly (1).

(\_): Pawl



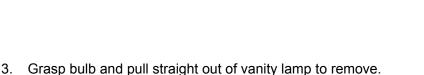
INFOID:000000012875492

INSTALLATION Installation is in the reverse order of removal.

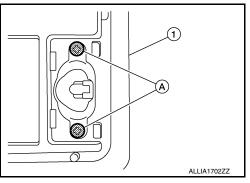
### VANITY LAMP

## Removal and Installation CAUTION: Do not attempt to separate the vanity lamp from the sun visor or damage to the components may occur. The vanity lamp is serviced as part of the sun visor. Refer to INT-27, "Removal and Installation". Bulb or Lens Replacement WARNING: Do not touch glass surface of a bulb while it is lit or right after being turned OFF to prevent burns. CAUTION:

- Do not touch glass of bulb directly by hand. Keep grease and other oily substances away from bulb surface.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture, smoke, etc. may affect performance of lamp.
- Do not attempt to separate vanity lamp from sun visor or damage to components may occur.
- 1. Insert a suitable tool into gap between lens and vanity lamp, then gently release lens pawls and remove lens.
- 2. Remove screws (A) and remove vanity mirror (1) from sun visor.



- 4. Install vanity lamp bulb to vanity lamp.
- 5. Install vanity mirror to sun visor.
- 6. Install vanity lamp lens.



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### GLOVE BOX LAMP

### **Bulb Replacement**

INFOID:000000012875495

The glove box lamp bulb is an LED and is serviced with the glove box assembly and housing. Refer to <u>IP-25</u>. "<u>Removal and Installation</u>".

### PERSONAL LAMP

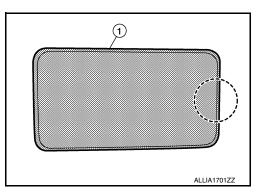
< REMOVAL AND INSTALLATION >	
PERSONAL LAMP	А
Removal and Installation	
The personal lamp is serviced with the headlining. Refer to <u>INT-27</u> , "Removal and Installation". Bulb Replacement	В
The personal lamp bulb is an LED and is serviced with the personal lamp. Refer to <u>INL-51</u> , "Removal and <u>Installation"</u> .	С
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### LUGGAGE ROOM LAMP

### Removal and Installation

#### REMOVAL

Release luggage room lamp (1) pawl using a suitable tool.
 (\_): Pawl



2. Disconnect the harness connector from the luggage room lamp and remove.

#### INSTALLATION

Installation is in the reverse order of removal.

Bulb or Lens Replacement

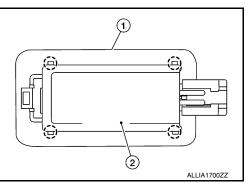
INFOID:000000012875499

INFOID:000000012875498

#### WARNING:

Do not touch glass surface of a bulb while it is lit or right after being turned OFF to prevent burns. CAUTION:

- Do not touch glass of bulb directly by hand. Keep grease and other oily substances away from bulb surface.
- Do not leave bulb out of lamp reflector for a long time because dust, moisture, smoke, etc. may affect performance of lamp.
- Release and insert pawl as indicated in exploded view or damage may occur.
- 1. Remove luggage room lamp. Refer to INL-52. "Removal and Installation".
- Release luggage room lamp cover (1) pawls using a suitable tool and remove from luggage room lamp (2).
   (\_): Pawl



- 3. Push tab to release one bulb end, then grasp bulb and pull out second end from its socket to remove.
- 4. Install cargo lamp bulb to cargo lamp.
- 5. Install luggage room lamp. Refer to INL-52, "Removal and Installation".

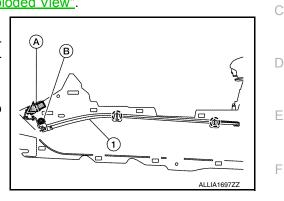
# MOOD LAMP

### Removal and Installation

#### FRONT CONSOLE

#### Removal

- Remove center console upper side finisher. Refer to <u>IP-19, "Exploded View"</u>.
- 2. Remove mood lamp (front console) (1) screw (B).
- 3. Release harness connector (A) clip using a suitable tool and disconnect the harness connector from the mood lamp (front console).
  - ∠\_\_: Clip
- 4. Release pawls using a suitable tool and remove mood lamp (front console).
  - (): Pawl



Installation

Installation is in the reverse order of removal.

#### REAR CONSOLE

The mood lamp (rear console) is serviced as part of the center console tray. Refer to IP-19, "Exploded View". Н

#### FRONT DOOR ARMREST

The mood lamp (front door armrest) is serviced as part of the front door finisher. Refer to INT-15, "Removal and Installation".

#### Bulb Replacement

MOOD LAMP BULBS

The mood lamp bulbs are LED and not serviced separately. Refer to INL-53, "Removal and Installation".

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### ILLUMINATION CONTROL SWITCH

### < REMOVAL AND INSTALLATION >

### ILLUMINATION CONTROL SWITCH

### Removal and Installation

INFOID:000000012875502

The illumination control switch is serviced as part of the meter control switch. Refer to <u>MWI-73</u>, "<u>Removal and</u> <u>Installation</u>".

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### < SERVICE DATA AND SPECIFICATIONS (SDS)

# SERVICE DATA AND SPECIFICATIONS (SDS) SERVICE DATA AND SPECIFICATIONS (SDS)

### **Bulb Specifications**

INFOID:000000012875503

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Item	Wattage (W)*	
Front room/map lamp assembly	-	
Vanity lamp	1.3	
Glove box lamp	-	
Personal lamp	-	
Luggage room lamp	5	
Mood lamp (front console)	-	
Mood lamp (rear console)	-	
Mood lamp (door armrest)	_	

\*: Always check with the Parts Department for the latest parts information.

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